

# MATSUSHITA Compressor

MODEL# QA110K27GAU6

Single Phase  
R-134a

115 V  
60 Hz

Voltage Range ..... 103 Volts to 127 Volts @ 60 Hz  
 Application ..... High Back Pressure  
 Compressor Cooling .... Fan Cooling

Refrigerant Control ... Capillary Tube  
 Evaporator  
 Temp. Range ..... 23°F to 59°F / -5°C to 15°C

## Rated Performance Data

Capacity ..... 3,926 Btu/h  $\pm 10\%$  \*  
 E.E.R. ..... 7.51 Btu/Wh  $\pm 10\%$  \*  
 Current ..... 6.06 Amps \*

Nominal Motor Data	Motor Input ..... 523 Watts*
	Rated Current ..... 6.00 Amps
	Type ..... RSIR, PTC relay

Locked Rotor ..... 30.7 Amps	
Start Current ..... 36.4 Amps	
Coil Resistances @ 68°F (20°C)	Run ..... 1.18 Ohms
	Start ..... 7.00 Ohms

## \*Test Conditions for Performance Specifications

Test Oil ..... Freol  $\alpha$  22  
 Shell Temp ..... 170.0°F / 76.0°C  
 Condensing Temp ..... 130.0°F / 54.4°C  
 Evaporating Temp ..... 45.0°F / 7.2°C  
 Ambient Temp ..... 95.0°F / 35.0°C  
 Gas Superheat ..... 95.0°F / 35.0°C  
 Liquid Sub-Cooling ..... 115.0°F / 46.1°C

## Electrical Accessories<sup>†</sup>

Overload Protector  
 Nominal Operating Characteristics

Model Name	MST18ALZ
Manufacturer	Texas Instruments
Temperature To	Open: 248°F $\pm 9\%$ / 120°C $\pm 5\%$ Close: 142°F $\pm 20\%$ / 61°C $\pm 11\%$
Trip Current	@158°F (70°C) 8.0 Amps $\pm 7.5\%$ @77°F (25°C) 18.3 Amps @ 18 sec. max.

## P.T.C. Starting Device

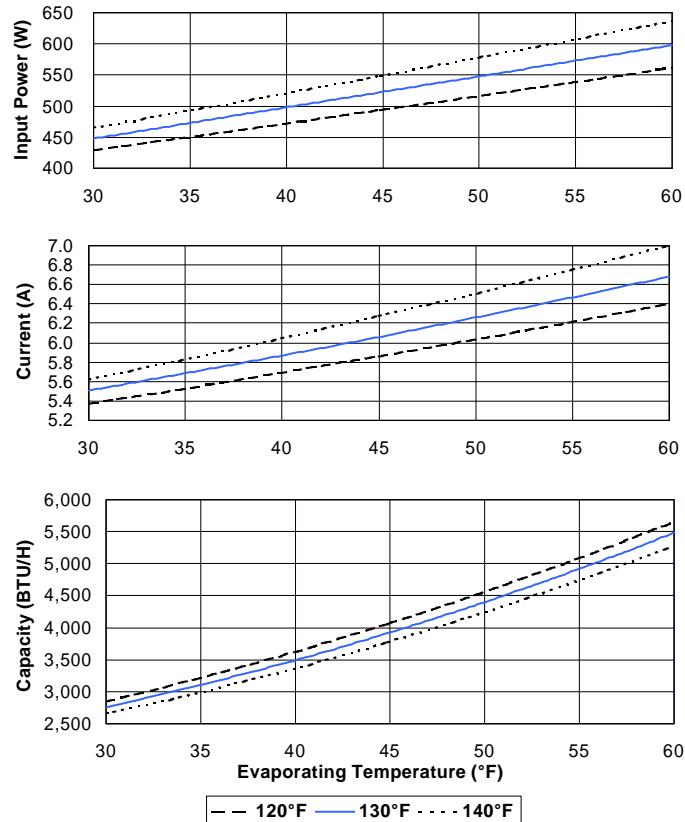
Nominal Operating Characteristics

Model Name	MM8-5CDP4M7	PTH7M4R7MC1	
Manufacturer	Matsushita	Murata Mfg.	
Base resistance @ 77°F(25°C) $\pm 20\%$	4.7	4.7	Ohms
Power Consumption (max)	4.0	3.0	Watts
Operation time	1.5 to 3.5	0.7 to 2.2	seconds
Recovery time (max)	85	70	seconds

Run Capacitor —  $\mu$ F — V (min.)

†Although these accessories are listed by UL/CSA for use with this compressor, Matsushita assumes no responsibility whatsoever for these or any other components sourced by the refrigeration system manufacturer from third parties.

## Performance Curves



## 9 – Point Data

Condensing Temp.	Rating	Evaporating Temp.		
		+30°F	+45°F	+59°F
140°F	Btu/h	2,660	3,780	5,469
	Watts	465	549	631
	Amps	5.62	6.27	6.95
	E.E.R.	5.72	6.89	8.19
130°F	Btu/h	2,759	3,926	5,364
	Watts	448	523	593
	Amps	5.51	6.06	6.64
	E.E.R.	6.16	7.51	9.05
120°F	Btu/h	2,847	4,070	5,534
	Watts	429	494	557
	Amps	5.37	5.86	6.36
	E.E.R.	6.64	8.24	9.94

# Panasonic®

Panasonic Industrial Company  
 Refrigeration Products Department  
 Tel: 201 - 392 - 4249  
 Fax: 201 - 392 - 4315

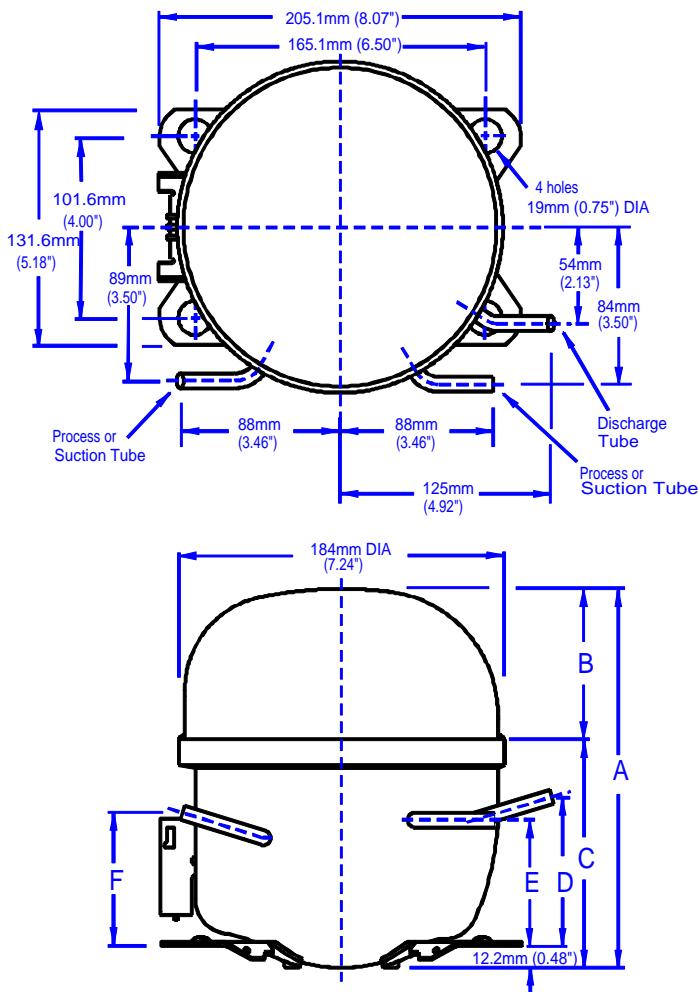
Rev#1-5/9

# MATSUSHITA Compressor

MODEL# QA110K27GAU6

Single Phase  
R-134a

115V  
60Hz

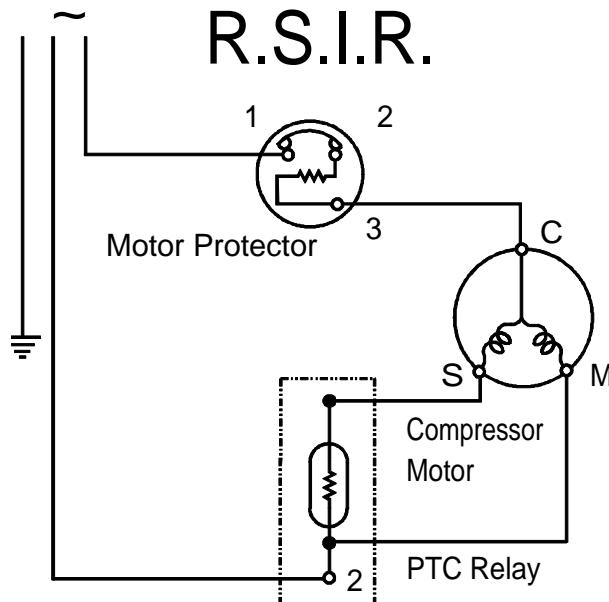


## Dimensions\*

	mm	inches
A .....	208.6 .....	8.21
B .....	92.8 .....	3.65
C .....	115.8 .....	4.56
D .....	77.0 .....	3.03
E .....	62.2 .....	2.45
F .....	77.0 .....	3.03

\* All dimensions are for reference only

This document sets forth certain operational parameters and conditions for operation of this product. If this product is operated outside of the parameters and conditions stated herein, buyer assumes sole and full responsibility and shall indemnify seller with respect to all product failures and all consequences thereof. Operation of the product outside of the parameters and conditions specified herein shall serve to invalidate all seller warranties, if any, with respect to the product. This document is for reference only. For specifications, please contact Panasonic's engineering department.



Tubes	Tube O.D.	Wall	Material
Suction .....	0.39 in. / 10 mm	0.035 in. / 0.9 mm	Copper
Process .....	0.39 in. / 10 mm	0.035 in. / 0.9 mm	Copper
Discharge .....	0.33 in. / 8.3 mm	0.035 in. / 0.9 mm	Copper

U.L. File # ..... SA 4615  
C.S.A. File #'s ..... LR - 34080  
LR - 36593  
LR - 100738

General Data Oil Charge .. 250 cc ± 5 cc / 15.3 cu.in. ± 0.3 cu.in.  
Net Weight With Oil ..... 22.2 lbs, 10.1 kg  
Approved Oils ..... FREOL α 22  
Residual Moisture ..... 120 mg max.  
Impurities ..... 10 mg max.  
Displacement ..... 10.86 cc. / 0.663 cu. in.

# Panasonic®

Panasonic Industrial Company  
Refrigeration Products Department  
Tel: 201 - 392 - 4249  
Fax: 201 - 392 - 4315

Rev#1-5/9